

REC'D. 0 3 APR 2003

Patent Office Canberra

I, SMILJA DRAGOSAVLJEVIC, TEAM LEADER EXAMINATION SUPPORT AND SALES hereby certify that annexed is a true copy of the Provisional specification in connection with Application No. PS 0837 for a patent by STEPHEN DARDAY as filed on 04 March 2002.



WITNESS my hand this Thirteenth day of March 2003

5. Iragosavyenc

SMILJA DRAGOSAVLJEVIC TEAM LEADER EXAMINATION SUPPORT AND SALES

PRIORITY DOCUMENT

SUBMITTED OR TRANSMITTED IN COMPLIANCE WITH RULE 17.1(a) OR (b)

## Magr ic Torque Converter - Stephen Darday

Page 1 of 1

The magnetic torque converter consists of three members. The input member, output member & the torque multiplying member. Plus there is an auxiliary member which can be called the fourth member.

THE INPUT MEMBER has two, four or more poles and is coupled to the primary powersource. The primary power source drives the imput member.

THE OUTPUT MEMBER has the same number of poles as the input member, but each pole is made up of two or more segments. Opposite each pole, there is a windig to collect electricity as and when applicable.

While the input member rotates usually Clockwise, magnetic attraction and epulsion applies torque on the output member. This torque is always 1: 1.

if the load on the output member is less then the total force acting on the poles, the output member rotates at the same speed as the input member and at same speed as the primary power source.

If the load on the output member is greater then the total force acting on the soles, the output member rotates at a speed less then the input member or the rimary power source. In this state the torque converter is "slipping". At times the output member may be stationary.

hile the torque converter is in a "slipping" state, the magnet segments that take up the poles on the output member, change their position, one by one from eft to right. One segment per pole. The effect of this is, that the poles otate faster then the output member.

hen the the magnet segments change their position, the moving magnetic flux enerates electricity and is collected in the winding.

he electricity thus collected in the winding is fed into the torque ultiplying member. The torque multiplying member is the secondary power ource. The output torque now is 1:(1+X). The X is any value that is erived from the use of the available electricity.

O SUMMARISE, when the torque converter is not "slipping" power is not enerated, output torque is 1:1. Conversely when the torque converter is slipping" power is generated and fed into the torque multiplying unit and utput torque is 1:(1+X).

HE AUXILARY FOURTH MEMBER, merges torque onto the output shaft in the correct ay.

agnetic Torque Converter - Stephen Darday,

Page 1 of 1